

Marvell And Cree Bring Industry-Leading Dimmer Compatibility And ENERGY STAR Compliancy To Consumer-Class LED Bulbs

New Turnkey A19 Bulb Joint Reference Design Being Showcased at Hong Kong LIGHTFAIR

SANTA CLARA, Calif., Oct. 24, 2012 /PRNewswire/ -- [Marvell](#) (Nasdaq: MRVL) today announced the availability of a new turnkey reference design developed with Cree, Inc. for 60-watt equivalent dimmable A19 LED bulbs, continuing the two companies' ongoing collaboration to drive the LED lighting revolution. The new ENERGY STAR® compliant design – integrating Marvell's latest deep dimming driver IC, the 88EM8183, and Cree's leading edge XLamp® XB-D LED – further enables the mass adoption of LED lighting with a consumer-friendly replacement bulb that is completely compatible with existing lighting infrastructure. The new reference design allows for smooth, flicker-free deep dimming, and offers high efficiency, high power factor and omnidirectional light distribution meeting ENERGY STAR guidelines. The reference design will be on display at Hong Kong LIGHTFAIR from Oct. 27 – 30.

(Logo: https://investor.marvell.com/image/Marvell_logo.jpg)

"Marvell's ongoing collaboration with Cree is addressing major barriers to consumer LED adoption – specifically, light quality, dimming capabilities, dimmer compatibility and cost. Working together, Marvell and Cree provide incomparable LED solutions, bringing high performing and efficient lamps with advanced capabilities to market through complete reference designs primed for high-volume, low-cost production," said Lance Zheng, Senior Technical Marketing Manager for the Green Technology Products Group at Marvell Semiconductor, Inc. "This new joint A19 reference design, featuring Marvell's 88EM8183 driver IC, further advances energy-efficient lighting for consumers while ensuring deep dimming and full compatibility with existing lighting infrastructures."

"Cree and Marvell share a common goal – to drive the LED lighting revolution by improving everybody's experience of solid state lighting," said Mike Watson, Senior Director of Marketing, LED components, at Cree.

"Cree's XLamp® XB-D LED based on our SC³ technology platform, doubles the lumens per dollar with a smaller footprint, increased efficiency and improved light extraction. Combined with Marvell's innovative driver technology, this joint project demonstrates an original, high performing, cost effective LED replacement lamp."

About 88EM8183 LED driver IC

Leveraging Marvell's unique mixed-signal architecture and advanced dimming control technology, the highly integrated 88EM8183 LED driver IC is designed to achieve smooth, flicker-free deep dimming. The 88EM8183 is compatible with the vast majority of wall box (TRIAC) dimmers – leading edge, trailing edge and digital dimmers – from manufacturers around the world providing consumers an out-of-the-box dimming experience. Additionally, the 88EM8183 IC significantly reduces the number of components needed for LED drivers, dramatically shrinking needed board space, allowing OEMs and ODMs to bring LED lighting to a wide array of lamp form-factors, including A19, PAR, BR and GU10, without compromising dimming performance.

Availability

Marvell and Cree have built copies of the 60-watt design to support North American, European and Asian power infrastructures. These newly manufactured reference designs are available immediately and will be on display at Cree's booth, #IE-B22, at Hong Kong LIGHTFAIR, being held Oct. 27 – 30 at the Hong Kong Convention and Exhibition Center. A 75-watt model of the reference design is expected to be available soon.

About Marvell

Marvell (NASDAQ: MRVL) is a world leader in the development of storage, communications and consumer silicon solutions. Marvell's diverse product portfolio includes switching, transceiver, communications controller, wireless and storage solutions that power the entire communications infrastructure, including enterprise, metro, home and storage networking. As used in this release, the term "Marvell" refers to Marvell Technology Group Ltd. and its subsidiaries. For more information, visit Marvell.com.

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